SYSTEMS AND METHODS FOR GENERATION OF TIME-DEPENDENT CONTROL SIGNALS FOR VIDEO SIGNALS

ABSTRACT OF THE DISCLOSURE

Systems and methods for generation of time-dependent control signals for video signals are provided. A system is provided that includes a set of microsequencers, a programmable combinational logic (PCL) module, shared memory, an arbiter for sharing of memory by the microsequencers, stacks containing registers for microsequencer control, and a control interface. The system can efficiently provide control signals for video signals, implement the MACROVISION copy protection process, and provide other value added features. The method includes accessing programs from shared memory, such that a set of microsequencers can generate flags. These flags are then processed to generate one or more control signals used to support the outputting of video signals including those requiring MACROVISION copy protection.

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